



IFWO

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/707,747

DATE: 09/20/2004  
TIME: 16:13:05

Input Set : A:\Sequence Listings.ST25.txt  
Output Set: N:\CRF4\09202004\J707747.raw

3 <110> APPLICANT: University of South Florida  
 5 <120> TITLE OF INVENTION: DETECTION OF RED TIDE ORGANISMS BY NUCLEIC ACID  
**AMPLIFICATION**  
 7 <130> FILE REFERENCE: 1372.120PCR  
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/707,747  
 C--> 9 <141> CURRENT FILING DATE: 2004-01-08  
 9 <160> NUMBER OF SEQ ID NOS: 8  
 11 <170> SOFTWARE: PatentIn version 3.2  
 13 <210> SEQ ID NO: 1  
 14 <211> LENGTH: 20  
 15 <212> TYPE: DNA  
 16 <213> ORGANISM: artificial sequence  
 18 <220> FEATURE:  
 19 <223> OTHER INFORMATION: Forward primer designed to amplify and detect the 91-bp  
 region of  
 20       the rbcL gene of K. brevis.  
 22 <400> SEQUENCE: 1  
 23 tgaaacgtta ttgggtctgt  
 26 <210> SEQ ID NO: 2  
 27 <211> LENGTH: 22  
 28 <212> TYPE: DNA  
 29 <213> ORGANISM: artificial sequence  
 31 <220> FEATURE:  
 32 <223> OTHER INFORMATION: Reverse primer designed to amplify and detect the 91-bp  
 region  
 33       of the rbcL gene specific K. brevis.  
 35 <400> SEQUENCE: 2  
 36 aggtacacac tttcgtaaac ta  
 39 <210> SEQ ID NO: 3  
 40 <211> LENGTH: 19  
 41 <212> TYPE: DNA  
 42 <213> ORGANISM: artificial sequence  
 44 <220> FEATURE:  
 45 <223> OTHER INFORMATION: Fluorogenic probe designed to amplify and detect the 91-bp  
 46       region of the rbcL gene specific K. brevis.  
 48 <400> SEQUENCE: 3  
 49 ttaaccttag tctcgggta  
 52 <210> SEQ ID NO: 4  
 53 <211> LENGTH: 19  
 54 <212> TYPE: DNA  
 55 <213> ORGANISM: artificial sequence  
 57 <220> FEATURE:  
 58 <223> OTHER INFORMATION: Real Time NASBA forward primer for the marker region of rbcL  
 gene



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22

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59 specific to K. brevis.  
61 <400> SEQUENCE: 4  
62 acgttattgg gtctgtgta

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65 <210> SEQ ID NO: 5  
66 <211> LENGTH: 50  
67 <212> TYPE: DNA  
68 <213> ORGANISM: artificial sequence  
70 <220> FEATURE:  
71 <223> OTHER INFORMATION: Reverse primer for real time NASBA to detect the marker region  
of  
72 the rbcL gene specific to K. brevis.  
74 <400> SEQUENCE: 5  
75 aattcttaata cgactcacta tagggagaag gtacacactt tcgtaaacta 50  
78 <210> SEQ ID NO: 6  
79 <211> LENGTH: 33  
80 <212> TYPE: DNA  
81 <213> ORGANISM: artificial sequence  
83 <220> FEATURE:  
84 <223> OTHER INFORMATION: Molecular beacon used for real time NASBA assay.  
86 <400> SEQUENCE: 6  
87 cgatcgctta gtctcggtt atttttcga tcg 33  
90 <210> SEQ ID NO: 7  
91 <211> LENGTH: 19  
92 <212> TYPE: DNA  
93 <213> ORGANISM: artificial sequence  
95 <220> FEATURE:  
96 <223> OTHER INFORMATION: PCR primer set was designed with sequence data from Karenia  
97 mikimotoi (GenBank accession no. AB034635) by modifying existing  
98 chromophyte rbcL primers in order to amplify a 554-bp region  
99 (approximately one-third) of Karenia's rbcL gene (forward  
102 <400> SEQUENCE: 7  
103 atgatgaraa yattaactc 19  
106 <210> SEQ ID NO: 8  
107 <211> LENGTH: 21  
108 <212> TYPE: DNA  
109 <213> ORGANISM: artificial sequence  
111 <220> FEATURE:  
112 <223> OTHER INFORMATION: PCR primer set was designed with sequence data from Karenia  
113 mikimotoi (GenBank accession no. AB034635) by modifying existing  
114 chromophyte rbcL primers in order to amplify a 554-bp region  
115 (approximately one-third) of Karenia's rbcL gene (reverse  
118 <400> SEQUENCE: 8  
119 atttqtcccq cattqattcc t

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/707,747

DATE: 09/20/2004

TIME: 16:13:06

Input Set : A:\Sequence Listings.ST25.txt

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L:9 M:270 C: Current Application Number differs, Replaced Current Application No

L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date